SUBJECT INDEX

Aggregates
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Analysis
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Anisotropy
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Architects
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

ASCE Awards & Prizes
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

ASCE Committees
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.

ASCE Conferences
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.

ASCE Members
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

ASCE Publications
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.

Bearing capacity
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Bibliographies
Editor's Note, Kenneth L. Carper, CF Feb. 96, p1.
Guest Editorial, David H. Nicastro, P.E., CF Feb. 96, p2-4.

Bricks
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Bridge failure
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

Bridges, arch
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Bridges, steel
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Building codes
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Buildings
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.

Buildings, residential
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

California
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Canada
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Cantilevers
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.

Case reports
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Cast iron
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.

Cladding
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

Claims
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Coating
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.

Cohesive soils
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.

Collapse
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.

Columns
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.

Communication
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Concrete slabs
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Concrete structures failure
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Conflict
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Construction
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.

Construction costs
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Construction industry
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Construction practices
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

Contracts
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Corrosion
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Cost minimization
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Coverings
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Curricula
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Guest Editorial, Ruben J. Baer, CF May 96, p46.

Dam failure
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Damage assessment
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.

Debris
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.

Defects
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.

Deformation
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Design
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

SUBJECT INDEX

Aggregates
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Analysis
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Anisotropy
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Architects
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

ASCE Awards & Prizes
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

ASCE Committees
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.

ASCE Conferences
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.

ASCE Members
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

ASCE Publications
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.

Bearing capacity
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Bibliographies
Editor's Note, Kenneth L. Carper, CF Feb. 96, p1.
Guest Editorial, David H. Nicastro, P.E., CF Feb. 96, p2-4.

Bricks
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Bridge failure
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.

Bridges, arch
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Bridges, steel
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Building codes
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Buildings
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.

Buildings, residential
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

California
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Canada
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Cantilevers
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.

Case reports
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Cast iron
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.

Cladding
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

Claims
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Coating
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.

Cohesive soils
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.

Collapse
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.

Columns
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.

Communication
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Concrete slabs
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Concrete structures failure
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Conflict
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Construction
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.

Construction costs
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Construction industry
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Construction practices
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

Contracts
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Corrosion
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Cost minimization
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Coverings
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Curricula
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Guest Editorial, Ruben J. Baer, CF May 96, p46.

Dam failure
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Damage assessment
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.

Debris
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.

Defects
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.

Deformation
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Design
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

Design criteria
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.

Deterioration
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.

Differential settlement
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.

Dynamic programming
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.

Earth reinforcement
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Earthquake damage
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.

Earthquake resistant structures
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.

Earthquakes
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Embankment stability
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Embankments
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.

Engineering education
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.
Guest Editorial, Ruben J. Baer, CF May 96, p46.

Erosion
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Expansion
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Faculty
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Guest Editorial, Ruben J. Baer, CF May 96, p46.

Failures
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.
Editor's Note, Kenneth L. Carper, CF Feb. 96, p1.
Editor's Note, Kenneth L. Carper, CF May 96, p45.
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.
Guest Editorial, David H. Nicastro, P.E., CF Feb. 96, p2-4.
Guest Editorial, Ruben J. Baer, CF May 96, p46.
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Failures, investigations
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.
Editor's Note, Kenneth L. Carper, CF Nov. 96, p141-142.
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

Feedback loops
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.

Field investigations
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Field tests
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.

Fills
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.

Finance
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Floors
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

Forensic engineering
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.
Editor's Note, Kenneth L. Carper, CF Feb. 96, p1.
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, Kenneth L. Carper, CF May 96, p87.
Guest Editorial, David H. Nicastro, P.E., CF Feb. 96, p2-4.
Guest Editorial, Ruben J. Baer, CF May 96, p46.

Foundation design
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Foundation investigations
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.

Foundation performance
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.

Foundation settlement
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Foundations
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.

Frost heave
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Geosynthetics
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.

Geotechnical engineering
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.

Geotextiles
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Ground motion
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.

Grouting
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.

History
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.

Houses
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.

Human behavior
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, Jane Morley, CF Feb. 96, p23-31.

Hurricanes
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

Impact loads
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Inspection
Case of Residential Foundation Failure and Preservation by Grouting, A. Khalilian and F. Amini, CF Nov. 96, p159-163.

Instrumentation
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Insurance
Editor's Note, Kenneth L. Carper, CF Aug. 96, p89.

Landslides
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.

Leakage
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.

Liability insurance
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Life cycles
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Liquefaction
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Litigation
Editor's Note, Kenneth L. Carper, CF Feb. 96, p1.
Guest Editorial, David H. Nicastro, P.E., CF Feb. 96, p2-4.

Load combinations
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.

Load factors
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.

Load tests
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Local government liability
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.

Maintenance
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.
Effects of Faulty Design and Construction on Building Maintenance, Sadi Assaf, Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174.

Marble
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Marshes
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Masonry
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.
Residential Construction Failures Caused by Hurricane Andrew, Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33.

Mines
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Moisture
Retail-Grocery–Floor Failure, Raymond S. Rollings, CF May 95, p137-145.

New Jersey
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Nondestructive tests
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.

Owners
Interface Problems between Building Owners and Designers, Abdul-Mohsen Al-Hammad and Ibrahim Al-Hammad, CF Aug. 96, p123-126.

Performance
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.

Pools
Case History of Swimming Pool Foundation Failure, Bernard H. Hertlein, CF Feb. 96, p33-34.

Professional practice
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Protective coatings
Development of Bridge Corrosion Cost Model for Coating Maintenance, C. K. Tam and S. F. Stiemer, CF May 96, p47-56.

Publications
Editor's Note, Kenneth L. Carper, CF May 96, p45.

Quality control
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.

Reinforcement
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.
Premature Deterioration of Concrete Structures—Case Study, Ishtiaque Ahmed and M. Zakaria Ahmed, CF Nov. 96, p164-170.
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Renovation
Cast-Iron-Column Strength in Renovation Design, Donald Friedman, CF Aug. 95, p220-230.

Restoration
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, Kenneth L. Carper, CF Feb. 96, p42.

Retaining walls
Collapse of Geogrid-Reinforced Retaining Structure, Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292.
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Retrofitting
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.

Rubber
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Seismic design
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.

Seismic effects
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

Serviceability
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.

Settlement control
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Slope stability
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.
Failure of Desert View Drive Embankment, Robert W. Day, CF Feb. 96, p11-14.

Slope stabilization
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Soil investigations
Common Causes of Retaining-Wall Distress: Case Study, Edred T. Marsh and Richard K. Walsh, CF Feb. 96, p35-38.

Spoil
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Spreadsheets
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, C. K. Tam and S. F. Stiemer, CF May 96, p57-66.

Standards
Load Combinations and Load Factors for Construction, David V. Rosowsky, CF Nov. 96, p175-181.

State-of-the-art reviews
Foundation Design Considerations for Construction on Marshlands, A. Rhett Whitlock and Shahzad S. Moosa, CF Feb. 96, p15-22.

Strain gages
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.

Structural behavior
Seismic Performance of Cladding: Responsibility Revisited, Julie Mark Cohen, CF Nov. 95, p254-270.

Structural failures
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.
Feedback Service for Reducing Losses Due to Building Problems, D. E. Allen, CF May 96, p67-72.

Structural reliability
Evaluation of Structural Integrity of Damaged Masonry Building, Sherif A. Mourad and Farouk A. El-Hakim, CF May 96, p73-78.

Subsidence
Effects of Ground Subsidence on a House, R. M. Bennett, E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158.

Subsurface investigations
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, Robert W. Day and Dennis M. Poland, CF Aug. 96, p96-108.
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, J. Richard Cheeks, CF Nov. 96, p143-151.

Surveys, data collection
Claims Analysis from Risk-Retention Professional Liability Group, Jack R. Janney, C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122.

Tailings
Failure of Tapo Canyon Tailings Dam, Leslie F. Harder, Jr. and Jonathan P. Stewart, CF Aug. 96, p109-114.

Thermal factors
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, Clemens Widhalm, Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10.

Timber construction
Quality Control in Seismic Design and Construction, G. G. Schierle, CF Aug. 96, p90-95.
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

Tires
Slope Stabilization Using Old Rubber Tires and Geotextiles, Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79.

Trusses
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, Thomas E. Cousins, J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86.
Strengthening Requirements of Old, Timber Warren Trusses, H. C. Foo and G. Akhras, CF Aug. 96, p127-134.

AUTHOR INDEX

Ahmed, Ishtiaque
Premature Deterioration of Concrete Structures—Case Study, with M. Zakaria Ahmed, CF Nov. 96, p164-170

Ahmed, M. Zakaria
see Ahmed, Ishtiaque, CF Nov. 96, p164-170

Akhras, G.
see Foo, H. C., CF Aug. 96, p127-134

Al-Hammad, Abdul-Mohsen
Interface Problems between Building Owners and Designers, with Ibrahim Al-Hammad, CF Aug. 96, p123-126
see Assaf, Sadi, CF Nov. 96, p171-174

Al-Hammad, Ibrahim
see Al-Hammad, Abdul-Mohsen, CF Aug. 96, p123-126

Allen, D. E.
Feedback Service for Reducing Losses Due to Building Problems, CF May 96, p67-72

Al-Shihah, Mansoor
see Assaf, Sadi, CF Nov. 96, p171-174

Amini, F.
see Khalilian, A., CF Nov. 96, p159-163

Assaf, Sadi
Effects of Faulty Design and Construction on Building Maintenance, with Abdul-Mohsen Al-Hammad and Mansoor Al-Shihah, CF Nov. 96, p171-174

Baer, Ruben J.
Guest Editorial, CF May 96, p46

Basheer, Imad A.
disc. (of Slope Stabilization Using Old Rubber Tires and Geotextiles, by Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79) with Yacoub M. Najjar, CF Feb. 96, p40

Bennett, R. M.
Effects of Ground Subsidence on a House, with E. C. Drumm, G. Lin, T. Triplett and L. Powell, CF Nov. 96, p152-158

Bray, Jonathan D.
see Leonards, Gerald A., CF Nov. 94, p274-292

Broms, Bengt B.
see Poh, Paul S. H., CF Feb. 95, p76-79

Carper, Kenneth L.
Diagnosis and Treatment of Structures in Distress by R. N. Raikar, CF Feb. 96, p42
Editor's Note, CF Feb. 96, p1
Failures in Civil Engineering: Structural, Foundation and Geoenvironmental Case Studies by Robin Shepherd and J. David Frost, CF May 96, p87

Cheeks, J. Richard
Settlement of Shallow Foundations on Uncontrolled Mine Spoil Fill, CF Nov. 96, p143-151

Christopher, Bradley P.
see Cousins, Thomas E., CF May 96, p79-86

Cohen, Julie Mark
Seismic Performance of Cladding: Responsibility Revisited, CF Nov. 95, p254-270
disc: Robert W. Day, CF Nov. 96, p183
clo: CF Nov. 96, p183-184

Cousins, Thomas E.
Investigation of Bridge Floor-Truss Behavior in Tied-Arch Span, with J. Michael Stallings and Bradley P. Christopher, CF May 96, p79-86

Day, Robert W.
Damage due to Northridge Earthquake Induced Movement of Landslide Debris, with Dennis M. Poland, CF Aug. 96, p96-108
Failure of Desert View Drive Embankment, CF Feb. 96, p11-14
disc. (of Collapse of Geogrid-Reinforced Retaining Structure, by Gerald A. Leonards, J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292), CF Aug. 96, p138
disc. (of Retail-Grocery–Floor Failure, by Raymond S. Rollings, CF May 95, p137-145), CF Aug. 96, p136
disc. (of Seismic Performance of Cladding: Responsibility Revisited, by Julie Mark Cohen, CF Nov. 95, p254-270), CF Nov. 96, p183
disc. (of Slope Stabilization Using Old Rubber Tires and Geotextiles, by Paul S. H. Poh and Bengt B. Broms, CF Feb. 95, p76-79), CF Feb. 96, p40-41

Drumm, E. C.
see Bennett, R. M., CF Nov. 96, p152-158

El-Hakim, Farouk A.
see Mourad, Sherif A., CF May 96, p73-78

Eppensteiner, Walter
see Widhalm, Clemens, CF Feb. 96, p5-10

Foo, H. C.
Strengthening Requirements of Old, Timber Warren Trusses, with G. Akhras, CF Aug. 96, p127-134

Friedman, Donald
Cast-Iron-Column Strength in Renovation Design, CF Aug. 95, p220-230
disc: Conrad Paulson, Raymond H. R. Tide and Donald F. Meinheit, CF Nov. 96, p184
clo: CF Nov. 96, p184-185

Frost, J. David
see Leonards, Gerald A., CF Nov. 94, p274-292

Harder, Leslie F., Jr.
Failure of Tapo Canyon Tailings Dam, with Jonathan P. Stewart, CF Aug. 96, p109-114

Hertlein, Bernard H.
Case History of Swimming Pool Foundation Failure, CF Feb. 96, p33-34

Janney, Jack R.
Claims Analysis from Risk-Retention Professional Liability Group, with C. Roy Vince and Jack D. Madsen, CF Aug. 96, p115-122

Khalilian, A.
Case of Residential Foundation Failure and Preservation by Grouting, with F. Amini, CF Nov. 96, p159-163

Khan, Mohammed S.
see Suaris, Wimal, CF Feb. 95, p24-33

Leonards, Gerald A.
Collapse of Geogrid-Reinforced Retaining Structure, with J. David Frost and Jonathan D. Bray, CF Nov. 94, p274-292
disc: Robert W. Day, CF Aug. 96, p138
clo: CF Aug. 96, p138-140

Lin, G.
see Bennett, R. M., CF Nov. 96, p152-158

Madsen, Jack D.
see Janney, Jack R., CF Aug. 96, p115-122

Marsh, Edred T.
Common Causes of Retaining-Wall Distress: Case Study, with Richard K. Walsh, CF Feb. 96, p35-38

Meinheit, Donald F.
see Paulson, Conrad, (disc), CF Aug. 95, p220-230

Moosa, Shahzad S.
see Whitlock, A. Rhett, CF Feb. 96, p15-22

Morley, Jane
"Acts of God": The Symbolic and Technical Significance of Foundation Failures, CF Feb. 96, p23-31

Mourad, Sherif A.
Evaluation of Structural Integrity of Damaged Masonry Building, with Farouk A. El-Hakim, CF May 96, p73-78

Najjar, Yacoub M.
see Basheer, Imad A., (disc), CF Feb. 95, p76-79

Nicastro, David H., P.E.
Guest Editorial, CF Feb. 96, p2-4

Paulson, Conrad
disc. (of Cast-Iron-Column Strength in Renovation Design, by Donald Friedman, CF Aug. 95, p220-230) with Raymond H. R. Tide and Donald F. Meinheit, CF Nov. 96, p184

Poh, Paul S. H.
Slope Stabilization Using Old Rubber Tires and Geotextiles, with Bengt B. Broms, CF Feb. 95, p76-79
disc: Imad A. Basheer and Yacoub M. Najjar, CF Feb. 96, p40
disc: Robert W. Day, CF Feb. 96, p40-41
clo: CF Feb. 96, p41

Poland, Dennis M.
see Day, Robert W., CF Aug. 96, p96-108

Powell, L.
see Bennett, R. M., CF Nov. 96, p152-158

Rollings, Raymond S.
Retail-Grocery–Floor Failure, CF May 95, p137-145
disc: Robert W. Day, CF Aug. 96, p136
clo: CF Aug. 96, p136-137

Rosowsky, David V.
Load Combinations and Load Factors for Construction, CF Nov. 96, p175-181

Saffir, Herbert S.
disc. (of Residential Construction Failures Caused by Hurricane Andrew, by Wimal Suaris and Mohammed S. Khan, CF Feb. 95, p24-33), CF Aug. 96, p137

Schierle, G. G.
Quality Control in Seismic Design and Construction, CF Aug. 96, p90-95

Stallings, J. Michael
see Cousins, Thomas E., CF May 96, p79-86

Stewart, Jonathan P.
see Harder, Leslie F., Jr., CF Aug. 96, p109-114

Stiemer, S. F.
see Tam, C. K., CF May 96, p47-56
see Tam, C. K., CF May 96, p57-66

Suaris, Wimal
Residential Construction Failures Caused by Hurricane Andrew, with Mohammed S. Khan, CF Feb. 95, p24-33
disc: Herbert S. Saffir, CF Aug. 96, p137
clo: CF Aug. 96, p137-138

Tam, C. K.
Bridge Corrosion Cost Model Implementation and Coating Maintenance Model Using Dynamic Programming, with S. F. Stiemer, CF May 96, p57-66
Development of Bridge Corrosion Cost Model for Coating Maintenance, with S. F. Stiemer, CF May 96, p47-56

Tide, Raymond H. R.
see Paulson, Conrad, (disc), CF Aug. 95, p220-230

Triplett, T.
see Bennett, R. M., CF Nov. 96, p152-158

Tschegg, Elmar
see Widhalm, Clemens, CF Feb. 96, p5-10

Vince, C. Roy
see Janney, Jack R., CF Aug. 96, p115-122

Walsh, Richard K.
see Marsh, Edred T., CF Feb. 96, p35-38

Whitlock, A. Rhett
Foundation Design Considerations for Construction on Marshlands, with Shahzad S. Moosa, CF Feb. 96, p15-22

Widhalm, Clemens
Anisotropic Thermal Expansion Causes Deformation of Marble Claddings, with Elmar Tschegg and Walter Eppensteiner, CF Feb. 96, p5-10